

Purchase Order Receipt Listing

Monday, April 18, 2016 10:10:53 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO31988 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO31988	1	No	M6061T6R0.375 6061-T6 Round Bar .375" m134553	f	4/14/2016 12.0000	4/13/2016 PLOU01	24.0000	\$2.89 \$69.30	0.0000 0.0000	0 0	\$69.30
2	No		M303B1.000X03.000 303 BAR 1" X 3' m134553	f	4/14/2016 12.0000	4/13/2016 PLOU01	12.0000	\$45.39 \$544.70	0.0000 0.0000	0 0	\$544.70
3	No		M303R1.000 303 Round Bar 1.00 m134553	f	4/14/2016 24.0000	4/13/2016 PLOU01	24.0000	\$4.84 \$116.15	0.0000 0.0000	0 0	\$116.15
4	No		M304R0.750 304 SS Roundbar .750 m134553	f	4/14/2016 24.0000	4/13/2016 PLOU01	24.0000	\$3.04 \$73.00	0.0000 0.0000	0 0	\$73.00
5	No		M6061T6B0.500X05. 6061-T6 Bar .500 x 5.00 m134553	f	4/14/2016 12.0000	4/13/2016 PLOU01	12.0000	\$6.35 \$76.23	0.0000 0.0000	0 0	\$76.23
6	No		M6061T6B0.625X02. 6061-T6 Bar .625 x 2.50 m134553	f	4/14/2016 12.0000	4/13/2016 PLOU01	12.0000	\$4.74 \$56.83	0.0000 0.0000	0 0	\$56.83
7	No		M6061T6B1.000X04. 6061-T6 Bar 1.00 x 4.00 m134553	f	4/14/2016 12.0000	4/13/2016 PLOU01	12.0000	\$8.98 \$107.80	0.0000 0.0000	0 0	\$107.80

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO31988	8		M6061T6B1.000X15. f		4/14/2016	4/15/2016	12.0000	\$36.98	0.0000	0	\$443.75
CAD	No		6061-T6 Bar 1.00 x f		12.0000	PLOU01		\$443.75	0.0000	0	
			15.00								
			m134576								
	9		M6061T6B4.500X4.5 f		4/14/2016	4/13/2016	5.0000	\$57.75	0.0000	0	\$288.75
	No		6061-T6		5.0000	PLOU01		\$288.75	0.0000	0	
			Aluminum Bar 4.500" X 4.500"								
			m134553								
	10		M6061T6R1.000 f		4/14/2016	4/13/2016	12.0000	\$3.75	0.0000	0	\$45.05
	No		ROUND BAR 1.00"		12.0000	PLOU01		\$45.05	0.0000	0	
			m134553								
	11		71401-45		4/14/2016	4/15/2016	1.0000	\$0.00	0.0000	0	\$0.00
	No		PROCUREMENT		1.0000	PLOU01		\$0.00	0.0000	0	
			QUALITY								
			CLAUSES								
			m134576								
	12		71475-45	Each	4/14/2016	4/18/2016	24.0000	\$0.00	0.0000	0	\$0.00
	No		M303R0.750		24.0000	LAVO01		\$0.00	0.0000	0	
Total Received Quantity: Total Qty to Inspect (PO U/M): Total Reject Quantity: Total Receipt Value: Total Balance Due Quantity:											174.0000 0.0000 0.0000 \$1,821.54 0.0000

B I L L O F L A D I N G

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 986252
 Ship Date 13Apr16 at 10:52 From PFW
 Probill
 Via VIM DELIVERY
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-916437- 1 Your PO # 31988
 STAINLESS STEEL ROUND BAR 303 STAINLESS
 .750" DIA X 144.0000"

Heat Number Tag No
 VBMU-5630 520933

Quantity PCS Wt LBS
 24 FT 2 36

MTR

2) Our Order PEC-916437- 2 Your PO # 31988
 STAINLESS STEEL ROUND BAR 303 STAINLESS
 1.00" DIA X 144.0000"

Heat Number Tag No
 800699 520934

Quantity PCS Wt LBS
 24 FT 2 69

MTR

3) Our Order PEC-916437- 3 Your PO # 31988
 ALUMINUM FLAT BAR 6061-T6511
 .50" x 5.00" X 144.0000"

Heat Number Tag No
 106742 2 1-A-1 520935

Quantity PCS Wt LBS
 12 FT 1 37

MTR

4) Our Order PEC-916437- 4 Your PO # 31988
 ALUMINUM FLAT BAR 6061-T6511
 .625" x 2.50" X 144.0000"

Heat Number Tag No
 Z00229064 520936

Quantity PCS Wt LBS
 12 FT 1 22

MTR

5) Our Order PEC-916437- 5 Your PO # 31988
 ALUMINUM FLAT BAR 6061-T6511
 1.00" x 4.00" X 144.0000"

Heat Number Tag No
 106742 11 1-A-1 520937

Quantity PCS Wt LBS
 12 FT 1 57

MTR

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Sp16-04-12

B I L L O F L A D I N G

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 986252
 Ship Date 13Apr16 at 10:52 From PFW
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 Route 0- 0 Manifest
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 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC-916437- 6 Your PO # 31988

ALUMINUM PLATE 6061-T651

4.50" THICK X 4.5000" X 60.0000"

Heat Number Tag No
 70138060 520977

Quantity PCS MTR Wt LBS
 1.88 SFT 1 125

7) Our Order PEC-916437- 7 Your PO # 31988

ALUMINUM ROUND BAR 6061-T6511

1.00" DIA X 144.0000"

Heat Number Tag No
 Z00216220 520938

Quantity PCS MTR Wt LBS
 12 FT 1 11

8) Our Order PEC-916437- 8 Your PO # 31988

ALUMINUM ROUND BAR 6061-T6511

.375" DIA X 144.0000"

Heat Number Tag No
 65385 520939

Quantity PCS MTR Wt LBS
 24 FT 2 3

TOTAL: Tags 8 PCS 11 LBS 360

Heat Number

*** Chemical Analysis ***

106742 11 1-A-1

106742 2 1-A-1

65385

70138060

800699

VBMU-5630

Z00216220

Z00229064

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR

Page: 2Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
 RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 986252
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Probill
Via VIM DELIVERY
FOB CONCORD
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Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL 1 BDL, 1 SKID GW. 379 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

***UNE SURCHARGE D'ENERGIE DE \$25.00

SERA AJOUTEE A CHAQUE COMMANDE.***

***POUR VOS BESOINS D'ACIER INOXYDABLE,

CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

Page: 3 Last

ALUMINIUM - LAITON - CUIVRE - PLASTIQUE - ACIER INOX
ALUMINUM - BRASS - COPPER - PLASTICS - STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL ROUND BAR 303 STAINLESS
.750" DIA X 144.0000"
PART NO.

PO/Rel 31988

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-986252-001

13Apr16

Signed by: 

Pg 1/1

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 1 page (Page# 1)

Customer: COPCON PO#:PEC-264076 SO#:LERY20

MTR#:SUMMIT_2VW1349.

Item:RB03AC0048 Bundle:2VW1349 Heat#:VBMU-5630

VENUS WIRE INDUSTRIES PVT. LTD.																																											
ISO: 9001:2008 CERTIFIED																																											
REGD. OFFICE: 110 BACHIVANSHI HILL, COMPOUND, S. B. MARLEWATER PARK, MUMBAI - 400 013 (INDIA)																																											
TEL: +91(22)2005100/20051000 FAX: +91(22)2005100/2005100 E-MAIL: info@venuswire.com, sales@venuswire.com, website@venuswire.com																																											
INSPECTION / MILL / QUALITY CERTIFICATE EN 10204 TYPE 3.1 No. RB/VW/2013-2014/2214																																											
CUSTOMER	M/S. SUMMIT STAINLESS STEEL, LLC.																																										
INVOICE NO.	PM/394/EXP/2013-2014																																										
PRODUCT FORM	STAINLESS STEEL BRIGHT BARS																																										
DIMENSION/CONDITION	1.75" ANNEALED																																										
IDENTIFICATION	15B9115																																										
SPECIFICATION	ASTM A387/A587M-12, AMS 5640 TYPE 1, Q370-4B AND 2																																										
PROCESS	ANNEALED, COLD DRAWN, CENT. GROUND & POLISHED.																																										
<table border="1"> <thead> <tr> <th>ELEMENTS</th> <th>C%</th> <th>Si%</th> <th>Mn%</th> <th>P%</th> <th>S%</th> <th>Cr%</th> <th>Ni%</th> <th>Cu%</th> <th>Mo%</th> <th>N%</th> <th>Nb%</th> <th>Al%</th> <th>CO</th> </tr> </thead> <tbody> <tr> <td>SPECIFIED</td> <td>0.150</td> <td>1.00</td> <td>2.00</td> <td>0.150</td> <td>0.300</td> <td>17.00</td> <td>8.00</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> </tr> <tr> <td>RESULTS</td> <td>0.060</td> <td>0.310</td> <td>1.910</td> <td>0.036</td> <td>0.320</td> <td>17.37</td> <td>8.170</td> <td>0.420</td> <td>0.300</td> <td>0.061</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table>		ELEMENTS	C%	Si%	Mn%	P%	S%	Cr%	Ni%	Cu%	Mo%	N%	Nb%	Al%	CO	SPECIFIED	0.150	1.00	2.00	0.150	0.300	17.00	8.00	---	---	---	---	---	---	RESULTS	0.060	0.310	1.910	0.036	0.320	17.37	8.170	0.420	0.300	0.061	---	---	---
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HEAT TREATMENT : ANNEALED																																											
REMARKS																																											
<ul style="list-style-type: none"> * MATERIAL IS FREE FROM MERCURY CONTAMINATION * TESTED FROM RADIOACTIVE CONTAMINATION, AND FOUND SATISFACTORY. * MELTING PROCESS FAP CONVERTOR VOD. * VISUAL & DIMENSIONAL INSPECTION FOUND SATISFACTORY * NO WELDING PERFORMED * QTC SIZE 19.05 MM & PROLONGATION OF ACTUAL BAR * HOT REDUCTION RATIO 1: 73.95 * THE ABOVE MATERIAL IS TESTED AND CONFORMS TO (BEARING SHAFT QUALITY) CUSTOMERS SPECIFICATION * CUSTOMER ORDER NUMBER: VW22543 * COUNTRY OF ORIGIN: INDIA 																																											
<p>WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENT AND CUSTOMERS REQUIREMENTS, NEEDS AND EXPECTATIONS. MECHANICAL TEST RESULTS ARE TAKEN RANDOMLY FROM THE LOT.</p> <p>DATE: 23/10/2013</p> <p>DOC. No. F/QAD/15,R1</p> <p>PLANT: ATKARGAUM, TAKATADOSH ROAD, KHALAPUR, KHOPOLI - 410203</p> <p>Phone: +91(219)4304800/261405/262613 Fax: +91(219)304890/268873</p> <p>For info information / query please quote Invoice No. & TC No. / Invoice No. & Bundle No.</p> <p>WORK INSPECTOR VILAS CHOUDHARY</p>																																											

THYSSENKRUPP MATERIALS NA

ALUMINUM FLAT BAR 6061-T6511
1.00" x 4.00" x 144.0000"
PART NO.

PO/Rel 31988

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-986252-005

13Apr16
Pg 1/1



Nanshan America
Advanced Aluminum Technologies
3600 US Hwy 52 South
Lafayette, Indiana 47909
Main Office: (765) 269-4360

CERTIFIED INSPECTION REPORT FOR EXTRUDED PRODUCTS

BILL TO	10038 - B01 - ThyssenKrupp Materials NA, Toro	MANIFEST NUMBER	14264	DIE NUMBER	1118	DATE OF SHIPMENT	1/29/2016
SHIP TO	10038 - B01 - ThyssenKrupp Materials NA, Toro	CUSTOMER PO	PEC-271851	ALLOY	6061	TEMPER	T6511
CUSTOMER PART NUMBER	MANSHAN PART NUMBER	40-00668	DESCRIPTION	Flat Bar 1.000" X 4.000" Stenciled			
Melted in USA	Manufactured in USA	Applicable Requirements: ASTM B221-14 AMS-QQ-A-200/8 Rev A (2012-09) ASME SB221-1998 sect II					

OUR ORDER NUMBER	ITEM
106742	11

Mechanical Properties

Lot	Alloy	Test No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
106742 11 1A-1	6061	16010722	01/28/16	47.5	44.1	14%		

Chemical Limits

ALLOY 6061	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Each	Total
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.05	0.25	0.15	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		
Density:																				
Electrical Conductivity:																				
Thermal Conductivity:																				
Alloy Constant:																				

Chemical Composition

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Each	Al	Other
7601025	6061	0.68	0.36	0.29	0.10	0.95	0.06	0.01	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		97.47	

Nanshan America hereby certifies that the material covered by this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Mercury is not a normal contaminant in aluminum alloys. All Material is ROHS Compliant. Neither mercury nor any of its compounds were utilized by Nanshan America in the manufacture of this material.

Material complies with FAR BAA (FAR 52.225-1, Buy American Act-Supplies), DFARS BAA (DFARS 252.225-7001 Buy American Act & Bal of Payments Prog), and FAR TAA (FAR 52.225-5 Trade Agreements) Tanner T6511 meets T6 Requirement

Edward Vinarick
Quality Manager

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
1.00" DIA X 144.0000"
PART NO.

PO/Rel 31988

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-986252-007

13Apr16

Signed by: 

Pg 1/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-273045-3		CUSTOMER PART NUMBER: 503/STK		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 1.000+/- .004	
KAISER ORDER NUMBER: 6002574	LINE ITEM: 003	SHIP DATE: 02/05/2016	KAISER LOT NUMBER: Z00216220	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1020.000 LB	QUANTITY: 92.000 PCS	B/L NUMBER: 614684	DIA/DIAF/THKNS: 1.000	WIDTH: 1.000	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

14 16/04/18

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00216220	0001	0001	52.3	49.4	16.3	RE 32	N/A	N/A
Z00216220	0001	0002	49.3	45.9	15.2	RE 30	N/A	N/A
Z00216220	0001	0003	49.6	46.3	15.8	RE 93	N/A	N/A
Z00216220	0001	0004	53.1	50.5	17.2	RE 93	N/A	N/A
Z00216220	0001	0005	54.0	51.5	18.4	RE 94	N/A	N/A
Z00216220	0001	0006	49.5	46.3	13.7	RE 92	N/A	N/A
Z00216220	0001	0007	51.8	48.9	16.5	RE 93	N/A	N/A
Z00216220	0001	0008	51.8	49.0	15.1	RE 93	N/A	N/A
Z00216220	0001	0009	49.8	46.7	17.4	RE 93	N/A	N/A
Z00216220	0001	0010	54.3	51.8	17.1	RE 92	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
735383	.75	.26	.29	.10	.93	.10	.04	.02	.00	.00	.00	.01	.03

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96C61
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN CANADA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00215290

Kaiser Order Number: 6002574

Line Item: 003

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

1.00" DIA X 144.0000"

PART NO.

PO/Rel 31988

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-986252-007

13Apr16

Signed by: 

Pg 2/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00215290

Kaiser Order Number: 6002574

Line Item: 003

Page 2 of 2

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS-STEEL ROUND BAR 303 STAINLESS
1.00" DIA X 144.0000"
PART NO.

PO/Rel 31988

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-986252-002

13Apr16

Signed by:  Pg 1/1



INSPECTION CERTIFICATE



Certificate Type : EN 10204 / 3.1

Our Sales Order No.	100308	Invoice No.	1518110470	Certificate No.	1516-0006049
Customer Order No.	PEC-269804	Invoice Date	09.01.2016	Date	09.01.2016

Customer
Thyssenkrupp Materials Na
2821 Langstaff Rd.
Concord, Ontario L4K 5C6
Ontario L4K 5C6
Canada

Trade Mark

ASSL

Inspector's Mark

ASS1

Material Data is		Stainless Steel Round Bar Centerless Ground & Polished		Solution Annealed	
Steel Grade	303	Shape	Round	Size	1.0000 inch
Heat No.	800699	Tolerance	A-484 (CF)	Length of Bar	144-168 inch
Net Weight	661.5 LBS	Number of Bars	19	Making Process	EF / AOD / MEMS
Bundle No.	AZ-1203				
Requirements	AMS 5640U:2007	ASTM A 582:2014			

Chemical Analysis %

	C	Si	Mn	P	S	Cr	Mo	Ni	Cu								
Min.					0.150	17.000		8.000									
Max.	0.150	1.000	2.000	0.150		19.000	1.000	19.000	1.000								
Melt	0.045	0.350	1.880	0.037	0.250	17.740	0.210	8.130	0.340								

Mechanical Properties

	YS(Rp 0.2%) (N/mm2) ASTM A 370:2014	UTS (N/mm2) ASTM A 370:2014	% Elongation ASTM A 370:2014	% Reduction Area ASTM A 370:2014	Hardness (BHN) ASTM A 370:2014	Charpy Impact V Notch (Longitudinal) (Joules)				
Min.					140	Temp. Deg (C)	Result			
Max.					255		1	2	3	Avg.
Results	326.120	619.530	41.210	51.420	173.000					

Heat Treatment :

Solution Annealed @ 1050°C. Soaking for 1hr-20mins & Water Quenching.

DAS
14
9-59

16/04/18

Remarks :

- * Country Of Origin Of Goods - India
- * Free from Radioactivity - verified through Gamma Ray Spectrometer
- * No Mercury Contamination
- * No welding has been performed on the material
- * Visual & Dimensional Inspection - OK
- * Material Identification tested through X-ray based portable Spectrometer
- * RoHS Compliance

QA Head / NDT Inspector

We confirm that the material is manufactured & supplied in accordance to the Purchase Order

Ambica Stainless Steel Limited

A-111, Wazirpur Industrial Area, New Delhi 110052 India Tel.: +91(120)4564565-68 Email: info@ambica.co.in Web: www.ambicastainless.com CIN: U27106DL2004PLC131284

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.625" x 2.50" X 144.0000"

PART NO.

PO/Rel 31988

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-986252-004

13Apr16

Signed by: 

Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-272750-6		CUSTOMER PART NUMBER: 735/STK		PRODUCT DESCRIPTION: 0.625 X 2.500 SC RECT BAR	
KAISER ORDER NUMBER: 6001881	LINE ITEM: 006	SHIP DATE: 02/19/2016	KAISER LOT NUMBER: Z00229064	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 397.000 LB	QUANTITY: 18.000 PCS	B/L NUMBER: 614816	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA 16/04/18		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00229064	0001	0001	44.0	40.3	17.4	RE 90	N/A	N/A
Z00229064	0001	0002	45.1	41.4	18.4	RE 90	N/A	N/A
Z00229064	0001	0003	44.3	40.7	19.2	RE 91	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
105855	.62	.28	.24	.07	.85	.06	.04	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-13 STENCILED ASME-SB221 2009 SECT II AYS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00217604

Kaiser Order Number: 6001881

Line Item: 006

Page 1 of 1

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

.375" DIA X 144.0000"

PART NO.

PO/Rel 31988

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-986252-008

13Apr16

Signed by: 

Pg 1/1

sapa:

MECHANICAL TESTING & CHEMICAL CERTIFICATION

Customer	Date	Location	Test #
THYSSENKRUPP	3/2/2016	Mississauga	1462
Customer #	1942	Order #	6020023
Control #	34686-1	P.O. #	PEC-272977
Cust Part #	3/8" ROD	Die #	AS 7714
Alloy & Temper	6061 T6511	Cast	65385

Sample dimensions	Width	Thickness	Area
	0.1116	1	0.1116

Test results

		Min Required	Actual
	Yield Stress (PSI)	35,000	39,730
	Ultimate Stress (PSI)	38,000	43,750
	% of Elongation in 2"	10	24.82

Chemistry 6061

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
Specification	0.4-0.8	0.7mx	0.15-0.4	0.15mx	0.8-1.20	0.04-0.35	0.25 mx	0.15mx
Actual value	0.586	0.219	0.201	0.089	0.874	0.06	0.014	0.013

DAS

14

0-02

16/04/18

Tensile testing is performed according to ASTM B557.15 requirements

Mechanical test results conform to specifications for ASTM B221/SB221 and elongation is taken after fracture.

The aluminum extrusions tested meet the chemical composition requirements of the alloy specified.

Test certified by Jagroop Khangura

Date 3/2/2016

SAPA EXTRUSION
5675 Kennedy Rd.
Mississauga, ON, L4Z 2H9

Tel:
Fax: (905) - 890 - 8821
(905) - 890 - 3670

Form #: QF 201
Rev2 Date: Nov 18, 2015

THYSSENKRUPP MATERIALS NA

ALUMINUM PLATE BAR 6061-T6511
50" X 5.00" X 144.0000"
PART NO.

PO/Rel 31988

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-986252-003

13Apr16
Pg 1/1



Nanshan America
Advanced Aluminum Technologies
3600 US Hwy 52 South
Lafayette, Indiana 47909
Main Office: (765) 269-4360

CERTIFIED INSPECTION REPORT FOR EXTRUDED PRODUCTS

BILL TO	10038 - B01-ThyssenKrupp Materials NA, Toro	MANIFEST NUMBER	14264	DIE NUMBER	1488	DATE OF SHIPMENT	1/29/2016
SHIP TO	10038 - B01-ThyssenKrupp Materials NA, Toro	CUSTOMER PO	PEC-271851	ALLOY	6061	TEMPER	T6511
CUSTOMER PART NUMBER	NANSCHAN PART NUMBER	40-00896	DESCRIPTION	Fiat Bar .500" X 5.000". Stenciled			
Melted in USA		Manufactured in USA					

OUR ORDER NUMBER	ITEM
106742	2

Applicable Requirements:

ASTM B221-13A AMS-QC-A-200/8 Rev
A12012-09J ASME SB221 - 1998 Sect II

Mechanical Properties

Lot	Alloy	Test No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
106742 2 1A-1	6061	16010801	01/28/16	43.2	39.2	12%		

Chemical Limits

ALLOY 6061	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Each	Total
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.05	0.25	0.15	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.15

Density: Electrical Conductivity: Thermal Conductivity: Alloy Constant:

Chemical Composition

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Each	Al	Other
1601025	6061	0.58	0.36	0.29	0.10	0.95	0.06	0.01	0.03	0.02	0.01	0.01	0.00								97.47	

Nanshan America hereby certifies that the material covered by this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Mercury is not a normal contaminant in aluminum alloys. All Material is ROHS Compliant. Neither mercury nor any of its compounds were utilized by Nanshan America in the manufacture of this material.

Material complies with FAR BAA (FAR 52.225-1, Buy American Act-Supplies), DFARS BAA (DFARS 252.225-7001 Buy American Act & Bal of Payments Prog), and FAR TAA (FAR 52.225-5 Trade Agreements) Temper T6511 meets T6 Requirements

Doc No: 226372 Indexed 3Feb16 by slsuptl

Edwford Kinnarick
Quality Manager

MATERIAL RECEIPT INSPECTION FORM

MATERIAL ML6061T6
DATE 16/04/18

PO / BATCH NO 31988/134553

MATERIAL CERTIFIED yes
QUANTITY RECEIVED 12'
QUANTITY INSPECTED 12'
QUANTITY REJECTED _____

THICKNESS ORDERED 500X5.00
THICKNESS RECEIVED 505X5.015
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT LINK ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>14</u>	SIGNED OFF BY _____		
DATE <u>16/04/18</u>	DATE _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL ML6061T6
DATE 16/04/16

PO / BATCH NO 31988/134553

MATERIAL CERT REQD yes
QUANTITY RECEIVED 12'
QUANTITY INSPECTED 12'
QUANTITY REJECTED _____

THICKNESS ORDERED R 1.00
THICKNESS RECEIVED R 1.00
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/>	
CORRECT THICKNESS	Y <input checked="" type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS LOGROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY _____	SIGNED OFF BY _____		
DATE <u>16/04/18</u>	DATE _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M601TL6
DATE 16/04/18

PO BATCH NO 31988/134553

MATERIAL CERT REQD yes
QUANTITY RECEIVED 24
QUANTITY INSPECTED 24
QUANTITY REJECTED _____

THICKNESS ORDERED R.375
THICKNESS RECEIVED R.380
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>14</u>	SIGNED OFF BY _____		
DATE <u>16/04/18</u>	DATE _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303
DATE 16/04/18

PO / BATCH NO 31988/134553

MATERIAL CERT REQD yes
QUANTITY RECEIVED 24'
QUANTITY INSPECTED 24'
QUANTITY REJECTED _____

THICKNESS ORDERED R 1.00
THICKNESS RECEIVED R 1.00
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>DAS</u>	SIGNED OFF BY _____		
DATE <u>16/04/18</u>	DATE _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061 TL
DATE 16/04/18

PO / BATCH NO 31988/134553

MATERIAL CERT REQD yes
QUANTITY RECEIVED 12
QUANTITY INSPECTED 12
QUANTITY REJECTED _____

THICKNESS ORDERED 1.00X 4.00
THICKNESS RECEIVED 1.010X 4.025
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>14</u>	SIGNED OFF BY _____		
DATE <u>16/04/18</u>	DATE _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL ML06/TL
DATE 16/04/18

PO / BATCH NO 31988/134553

MATERIAL CORRECTED yes
QUANTITY RECEIVED 12
QUANTITY INSPECTED 12
QUANTITY REJECTED

THICKNESS ORDERED .625X2.50
THICKNESS RECEIVED .625X2.50
SHEET SIZE ORDERED
SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT MATERIAL	Y	N	
CORRECT REF # TO LINK CERT	Y	N	
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK RECORD RESULTS BELOW				
	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>14</u>	SIGNED OFF BY <u></u>		
DATE <u>16/04/18</u>	DATE <u></u>		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303
DATE 16/04/21

PO / BATCH NO 31988/134553

MATERIAL CERT REQD yes
QUANTITY RECEIVED 24'
QUANTITY INSPECTED 24'
QUANTITY REJECTED _____

THICKNESS ORDERED R.750
THICKNESS RECEIVED R.747
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> N	
CORRECT THICKNESS	<input checked="" type="radio"/> N	
PHOTO REQUIRED	X <input checked="" type="radio"/>	
CORRECT MATERIAL	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>14</u>	SIGNED OFF BY _____		
DATE <u>16/04/21</u>	DATE _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303
DATE 16/04/21

PO / BATCH NO 31988/134553

MATERIAL CERTIFIED yes
QUANTITY RECEIVED 13
QUANTITY INSPECTED 13
QUANTITY REJECTED _____

THICKNESS ORDERED 1.00 X 3.00
THICKNESS RECEIVED 1.00 X 3.00
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	N	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

Testers located in the Quality Office

QC-18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY <u>DAS</u>	SIGNED OFF BY _____		
DATE <u>16/04/21</u>	DATE _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO31988**

Purchase Order Date 4/8/2016

PO Print Date 4/8/2016

Page Number 1 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

APR 11 2016

E-MAILED

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
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1	M6061T6R0.375	6061-T6 Round Bar .375"	4/14/2016 Yes 4/14/2016		12.00 f	\$3.75	\$45.00
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MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

new 24*

Line Total: \$45.00

2	M303B1.000X03.000	303 BAR 1" X 3'	4/14/2016 No 4/14/2016		12.00 f	\$58.95	\$707.40
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MATERIAL: AISI 303 SS BAR AS PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

B10
SP16-04-12

Line Total: \$707.40

Note:

4/8/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO31988**

Purchase Order Date 4/8/2016

PO Print Date 4/8/2016

Page Number 2 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

3	M303R1.000	303 Round Bar 1.00	4/14/2016	24.00 ✓	\$6.29 ✓	\$150.84
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Yes

4/14/2016

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: **\$150.84**

4	M304RO.750	304 SS Roundbar .750	4/14/2016	24.00 ✓	\$3.95 ✓	\$94.80
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Yes

4/14/2016

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

Line Total: **\$94.80**

5	M6061T6B0.500X05.000	6061-T6 Bar .500 x 5.00	4/14/2016	12.00 ✓	\$8.25 ✓	\$99.00
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Yes

4/14/2016

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Note:

4/8/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO31988**

Purchase Order Date 4/8/2016

PO Print Date 4/8/2016

Page Number 3 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Total: \$99.00

6 M6061T6B0.625X02.500 ✓ 6061-T6 Bar .625 x 2.50 4/14/2016
Yes
4/14/2016

12.00 ✓
f

\$6.15 ✓ \$73.80

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$73.80

7 M6061T6B1.000X04.000 6061-T6 Bar 1.00 x 4.00 4/14/2016
Yes
4/14/2016

12.00 ✓
f

\$11.67 ✓ \$140.00

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Spent 12

Line Total: \$140.00

Note:

4/8/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO31988

Purchase Order Date 4/8/2016

PO Print Date 4/8/2016

Page Number 4 of 5

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Qty	Part Number	Description	Unit	Price	Unit Price	Total Price
8	M6061T6B1.000X15.000	6061-T6 Bar 1.00 x 15.00	4/14/2016	12.00	\$48.03	\$576.30

Yes

f

4/14/2016

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

16" acceptable APR 11 2016

Line Total: \$576.30

9	M6061T6B4.500X4.500	6061-T6 Aluminum Bar 4.500" X 4.500"	4/14/2016	5.00	\$75.00	\$375.00
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No

f

4/14/2016

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$375.00

10	M6061T6R1.000	ROUND BAR 1.00"	4/14/2016	12.00	\$4.88	\$58.50
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Yes

f

4/14/2016

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Note:

4/8/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO31988**

Purchase Order Date 4/8/2016

PO Print Date 4/8/2016

Page Number 5 of 5

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

Line Total: \$58.50

11	71401-45	PROCUREMENT QUALITY CLAUSES	4/14/2016	1.00	\$0.00	\$0.00
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No

Procurement Quality Clauses

4/14/2016

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

Line Total: \$0.00

PO Total: \$2,320.64

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 4/8/2016